

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/12204

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C01B33/44 C08J3/22 C08K7/00 C08K9/04 C08L23/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C01B C08J C08K C08L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No.                 |
|------------|--|---------------------------------------|
| X          | <p>US 4 534 799 A (AGUIRRE JUAN E)<br/>13 August 1985 (1985-08-13)</p> <p>abstract<br/>column 2, line 5-60<br/>column 5, line 48-61<br/>column 6, line 54-62<br/>column 7, line 49-57<br/>* examples *</p>             | <p>1-6,9,<br/>11,13,<br/>14,16-19</p> |
| X          | <p>WO 99 07790 A (TNO; FISCHER HARTMUT RUDOLF<br/>(NL)) 18 February 1999 (1999-02-18)<br/>cited in the application<br/>abstract<br/>page 3, line 12-36<br/>page 5, line 11-15<br/>page 8, line 16-26<br/>example 1</p> | <p>1-5,9-19</p>                       |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

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- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

30 January 2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No.                   |
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| X          | <p>EP 0 705 880 A (SUMITOMO CHEMICAL CO)<br/>10 April 1996 (1996-04-10)</p> <p>page 2, line 33 -page 3, line 18<br/>page 7, line 51-59<br/>page 8, line 1 - line 22<br/>table 6<br/>* examples *</p>  | <p>1-4,<br/>7-14,<br/>16-19</p>         |
| X          | <p>WO 98 01503 A (CABOT CORP)<br/>15 January 1998 (1998-01-15)</p> <p>page 3, line 38 -page 4, line 3<br/>page 5, line 17 - line 20<br/>tables 1,2,4,5,7<br/>examples 1-3</p>   | <p>1,5,7-9,<br/>11,13,<br/>14,16-18</p> |
| A          | <p>LIAO B ET AL: "Polymer-layered silicate nanocomposites. 1. A study of poly(ethylene oxide)/Na-montmorillonite nanocomposites as polyelectrolytes and polyethylene-block-poly(ethylene glycol) copolymer/Na-montmorillonite nanocomposites as fillers for reinforcement of polyethylene"<br/>POLYMER, ELSEVIER SCIENCE PUBLISHERS B.V, GB,<br/>vol. 42, no. 25, December 2001 (2001-12),<br/>pages 10007-10011, XP004318131<br/>ISSN: 0032-3861<br/>cited in the application<br/>the whole document</p> | <p>1-19</p>                             |
| A          | <p>VAIA R A ET AL: "SYNTHESIS AND PROPERTIES OF TWO-DIMENSIONAL NANOSTRUCTURES BY DIRECT INTERCALATION OF POLYMER MELTS IN LAYERED SILICATES"<br/>CHEMISTRY OF MATERIALS, AMERICAN CHEMICAL SOCIETY, WASHINGTON, US,<br/>vol. 120, no. 2, 1993, pages 1694-1696,<br/>XP002062287<br/>ISSN: 0897-4756<br/>the whole document</p>   | <p>1-19</p>                             |

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP 03/12204

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